

Nuclear Opportunities...



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Fellowships and Postdoctoral Internships

Considering a nuclear energy-related career? The Idaho National Engineering and Environmental Laboratory maintains a full spectrum of research, development and testing activities in areas as diverse as nuclear power systems, low-energy nuclear physics, system safety analysis and neutron capture therapy.

As the nation's leading center of nuclear energy research and development, the INEEL is addressing national nuclear

research priorities with the following programs.

Generation IV Nuclear Energy Systems (Gen IV)

Six reactor designs for next-generation nuclear power technologies raise the performance bar by attempting to couple power generation with hydrogen production, developing innovative fuel systems, achieving very high thermal efficiencies, and incorporate nearly 100 percent passive safety systems.

Advanced Fuel Cycle – This program is focused on the development of new technologies that provide timely resolution of issues related to spent nuclear fuel disposition.

Fusion Safety – This program characterizes and assesses the safety and environmental issues associated with magnetic and inertial fusion. Currently, the program involves tritium permeation, molten salt mobilization and dust mobilization. Future

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activities include participation in the International Thermo-nuclear Experimental Reactor.

The INEEL is one of the Department of Energy's nine multiprogram national laboratories together with ANL and performs work in all four DOE business lines – energy resources, national security, environmental quality and science.

<http://energy.inel.gov>

Fellowship Programs

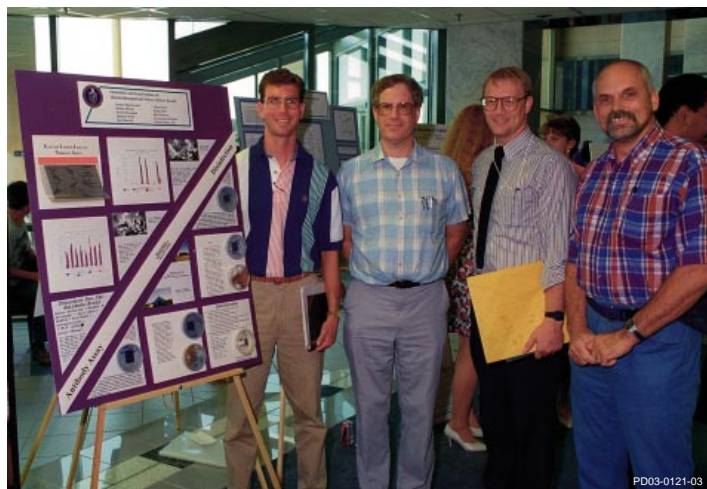
The fellowship programs provide opportunities for undergraduate and graduate students and faculty to experience an R&D environment at a world-class national lab. All fellowship participants are required to carry their own health insurance and must be U.S. citizens or have Permanent Resident Alien status.

Requirements for student fellowship programs include:

- Full-time enrollment at an accredited college or university
- Minimum cumulative GPA of 3.0

Graduate Fellowship

Graduate fellowships offer full- or part-time research experience at the INEEL or on the campus of a college or university. Full-time fellowship stipends at the INEEL begin at \$2600 per month for those pursuing a master's degree and \$3000 per month for those pursuing a doctorate. Stipends vary according



Under the guidance of an INEEL scientist, students prepare and give presentations and study exciting programs.

to the university standard if located at the university. Fellowships are renewable for up to three years. Requirements include acceptance into a master's and/or doctoral program at an accredited college or university.

Undergraduate Fellowships

The undergraduate summer fellowship program offers 10 to 16 weeks of full-time summer research experience at the INEEL with an INEEL mentor or on a college or university campus under the supervision of a faculty researcher. Stipends start at \$1,500 per month if located at the INEEL. Academic semester fellowships offer a 15-week minimum, research experience at the INEEL, or at the student's college or university. Recipients must have completed their fresh-

man year at the time of the fellowship.

Faculty Fellowship

Faculty fellowships offer full- or part-time research experience at the INEEL, or on the campus of a college or university. Faculty should have an established collaborative relationship with an INEEL principal investigator. Selection for a fellowship is based on qualifications, strength of a research proposal, and funding availability. Fellowship recipients must have full-time college or university faculty status with instructional or research responsibilities. Sabbaticals at the INEEL are encouraged.

Visit our Fellowship Programs website at: <http://education.inel.gov/university>

Postgraduate Internship Programs

The focus of the Postgraduate Internship Program is on postdoctoral interns. The Postdoctoral Internship Program offers appointments at the INEEL in the recipient's area of research expertise. Appointments are renewable, based on performance and available funding, for up to three years. Salaries range from \$3,600 to \$6,000 monthly, depending on experience. In addition to postdoctoral interns, graduates who have completed all institutional requirements for a master's or bachelor's degree within the past 12 months from an accredited college or university may apply to work with the INEEL's highly trained scientists, researchers, and administrators under the postgraduate program.

The International Research Associate Program was created so that faculty, scientists and students who are not citizens or permanent residents of the United States can come to the INEEL and collaborate with its employees under any of the programs described in this fact sheet.

In collaboration with the Inland Northwest Research Alliance (INRA), INEEL postgraduate interns are given faculty status by Washington State University (WSU).

Visit our Postgraduate Internship Programs website at: www.inel.asp.wsu.edu

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